

Interactive comment on “Quantitative infrared absorption cross-sections of isoprene for atmospheric measurements” by C. S. Brauer et al.

Anonymous Referee #2

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This paper describes carefully-made quantitative IR measurements of isoprene, an important chemical species in atmospheric and biogenic processes. The reported spectra are derived from multiple measurements and uncertainties are quantified and reported. Comparisons to existing literature are carefully made and inconsistencies appropriately addressed. Section 3.3 “Remote Sensing Considerations” is particularly valuable in defining the broader utility of the work. The paper is appropriate for Atmospheric Measurement Techniques and should be published with minor revisions as follows.

In Figure 1, the non-standard numbering of the atoms is extremely distracting. I agree with Reviewer #1 that this should be corrected.

On page 4172 line #25, the discussion of the discrepancy among the spectra at differ-

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ent temperatures is confusing. It is unclear whether the authors believe that this is due to the presence of a different conformer or not; this sentence needs to be rewritten. I wish to note that apart from this one sentence, the discussion in the paper in general is meticulously clear, and it was a pleasure to read.

Interactive comment on Atmos. Meas. Tech. Discuss., 7, 4163, 2014.

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